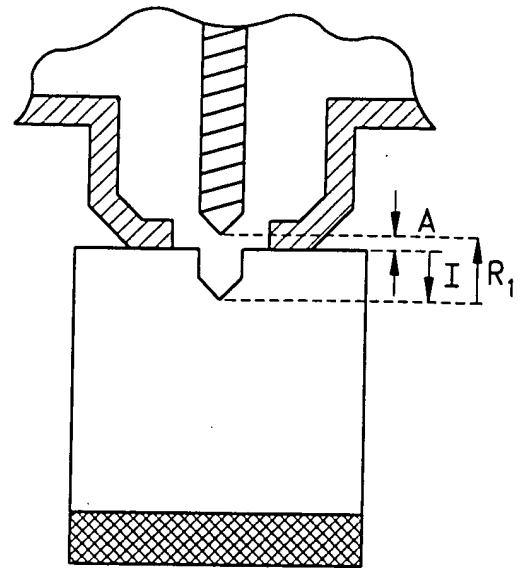
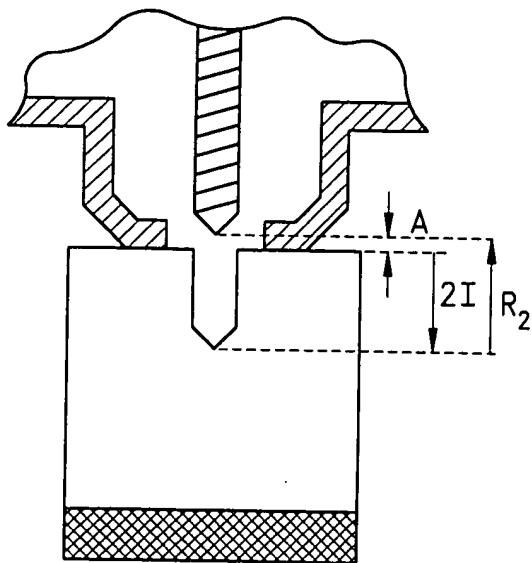


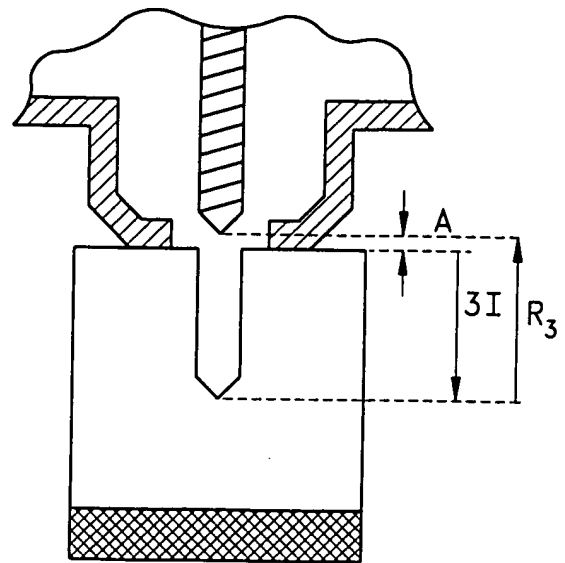
**FIG. 1A**  
 (PRIOR ART)



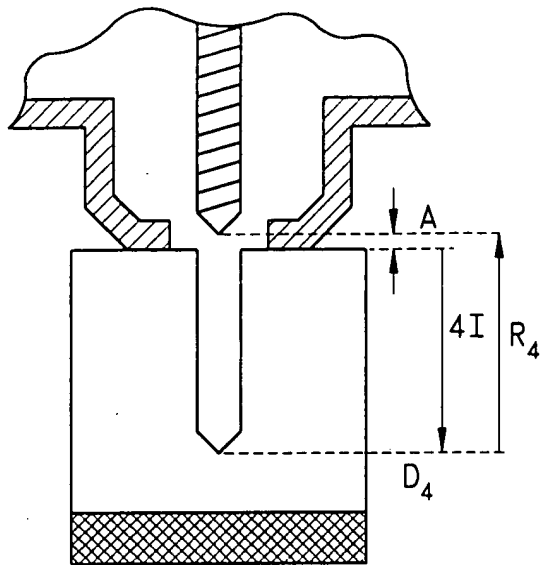
**FIG. 1B**  
 (PRIOR ART)



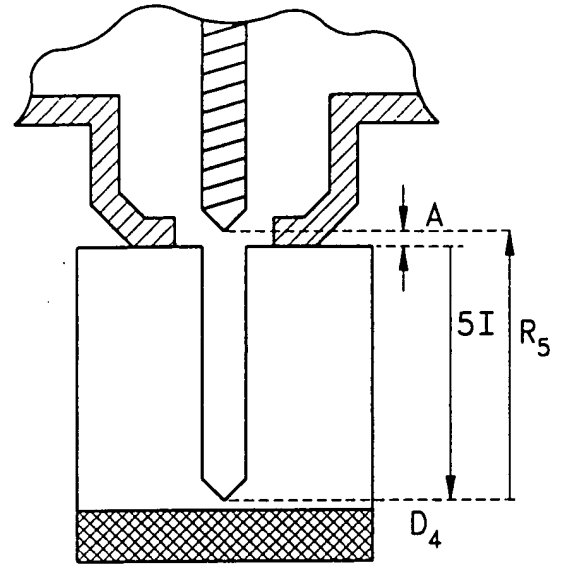
**FIG. 1C**  
 (PRIOR ART)



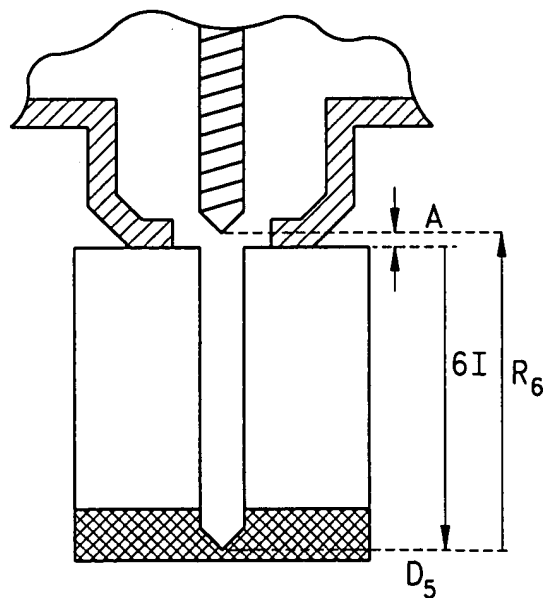
**FIG. 1D**  
 (PRIOR ART)



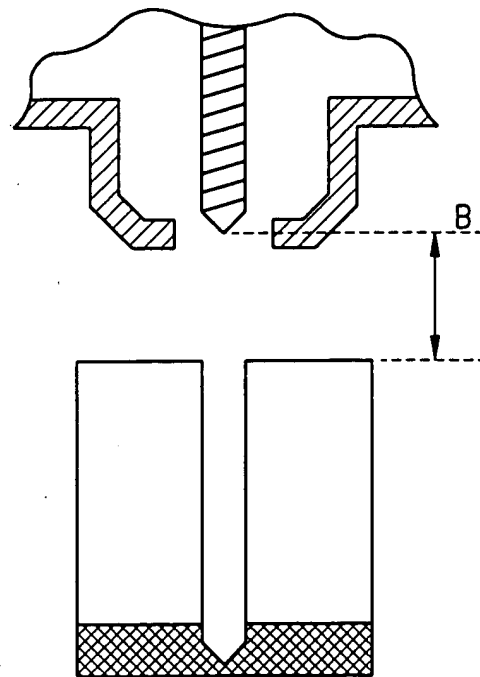
*FIG. 1E*  
(PRIOR ART)



*FIG. 1F*  
(PRIOR ART)



*FIG. 1G*  
(PRIOR ART)



*FIG. 1H*  
(PRIOR ART)

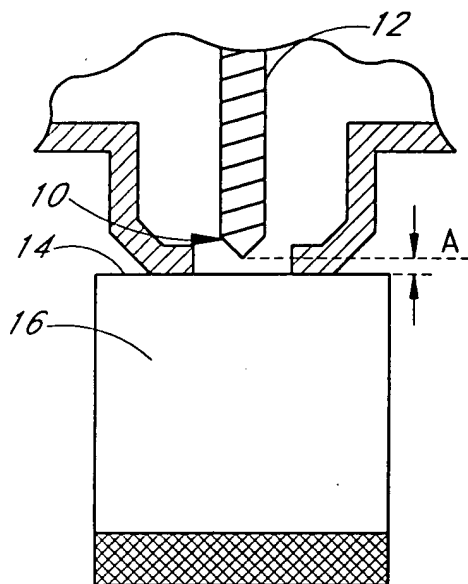


FIG. 2A

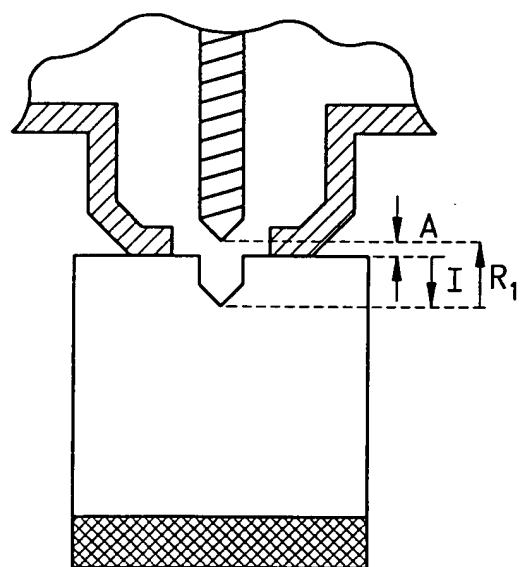


FIG. 2B

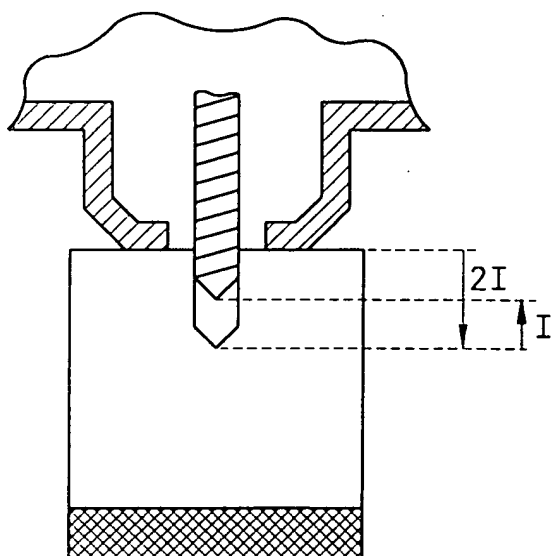


FIG. 2C

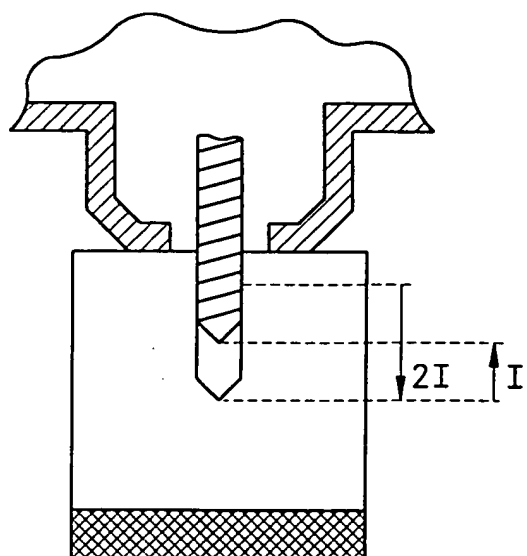


FIG. 2D

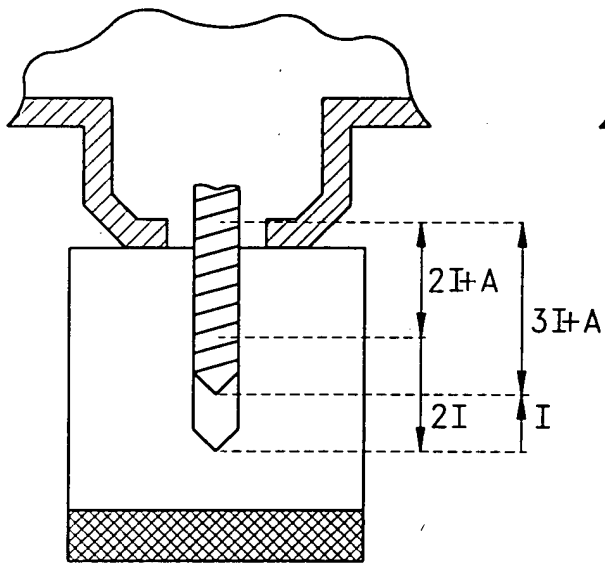


FIG. 2E

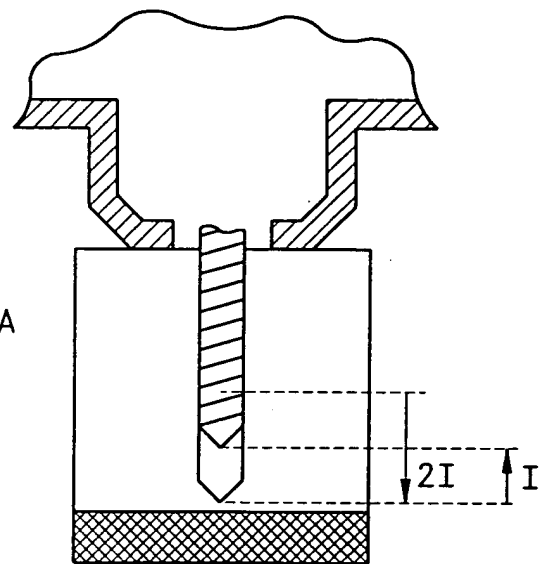


FIG. 2F

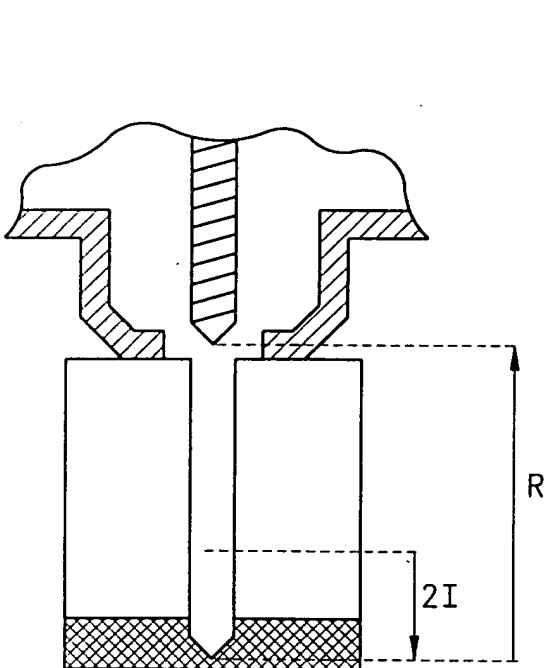


FIG. 2G

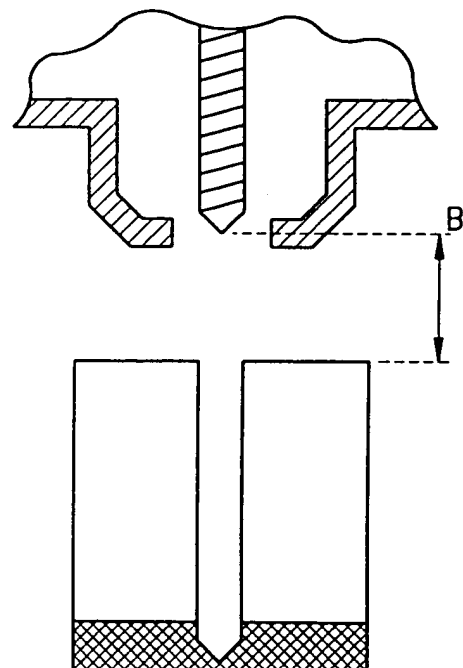


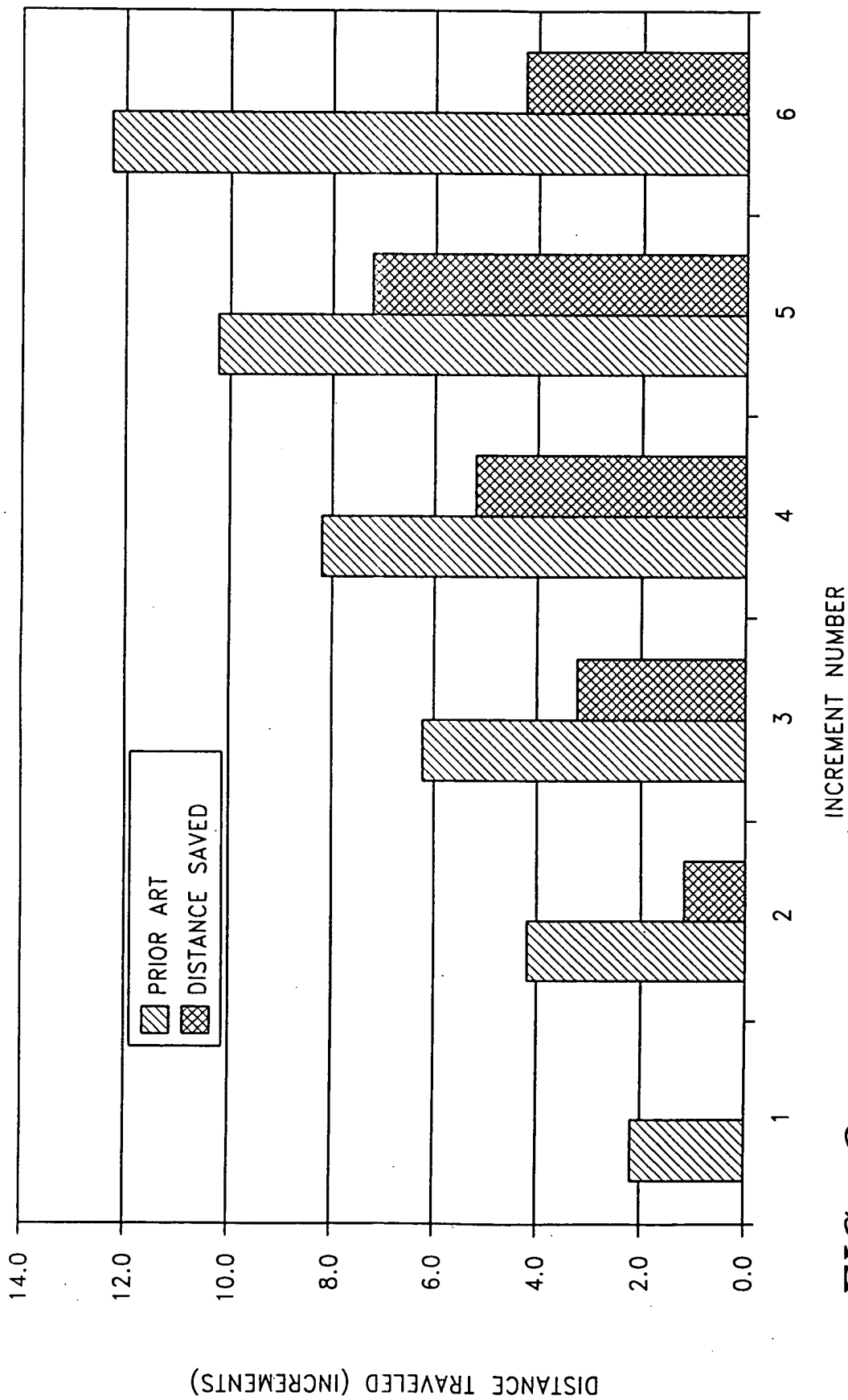
FIG. 2H

INCREMENTAL STEP DRILLING SYSTEM AND METHOD

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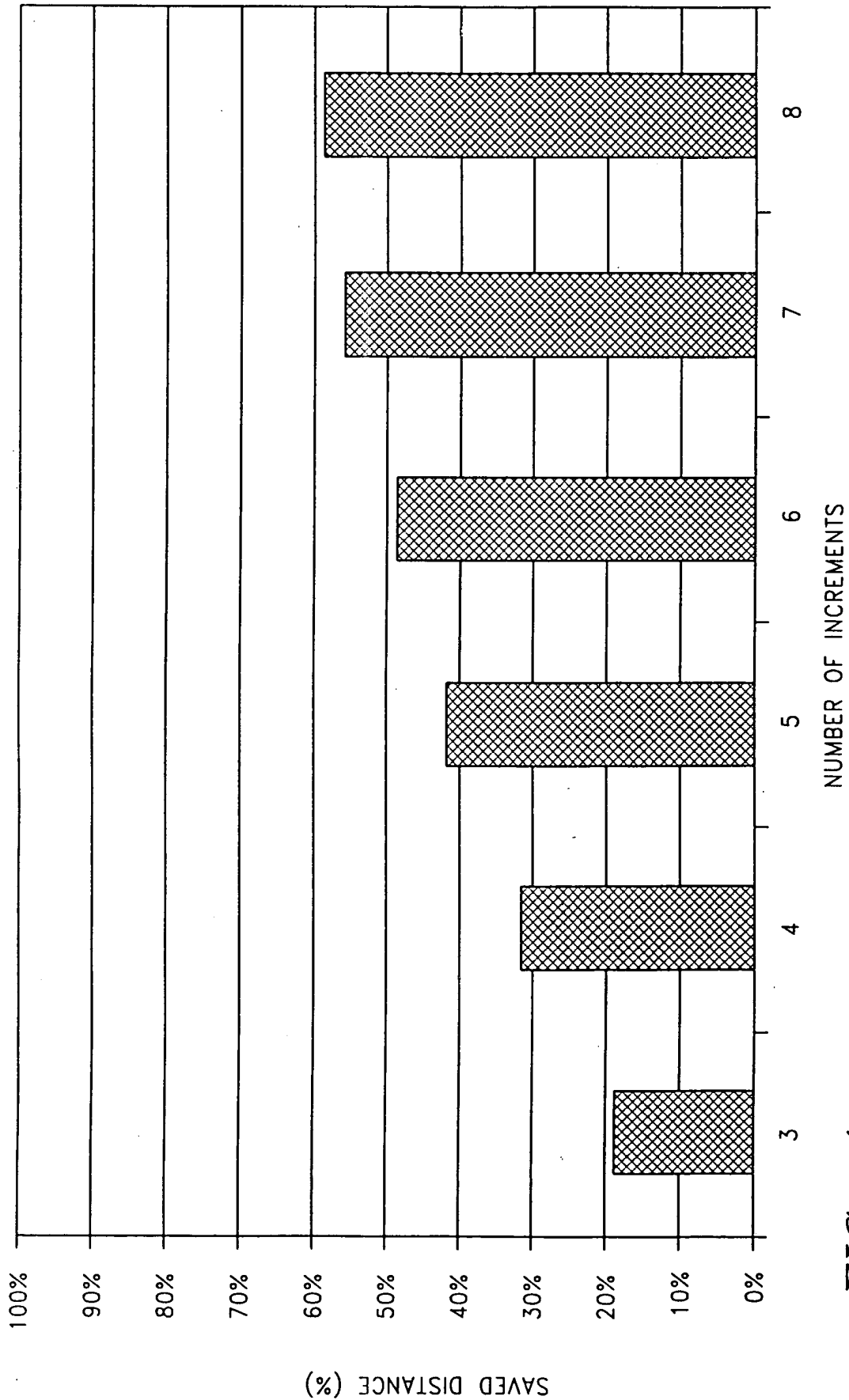


FIG. 4

INCREMENTAL STEP DRILLING SYSTEM AND METHOD

Weber et al.

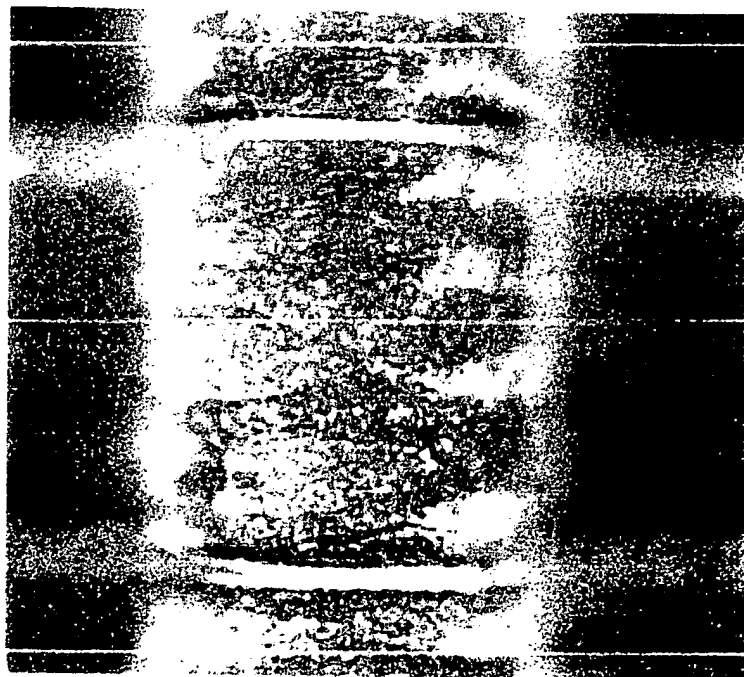
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BEST AVAILABLE COPY



*FIG. 5A*  
(PRIOR ART)



*FIG. 5B*

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*FIG. 6A*  
(PRIOR ART)



*FIG. 6B*

BEST AVAILABLE COPY



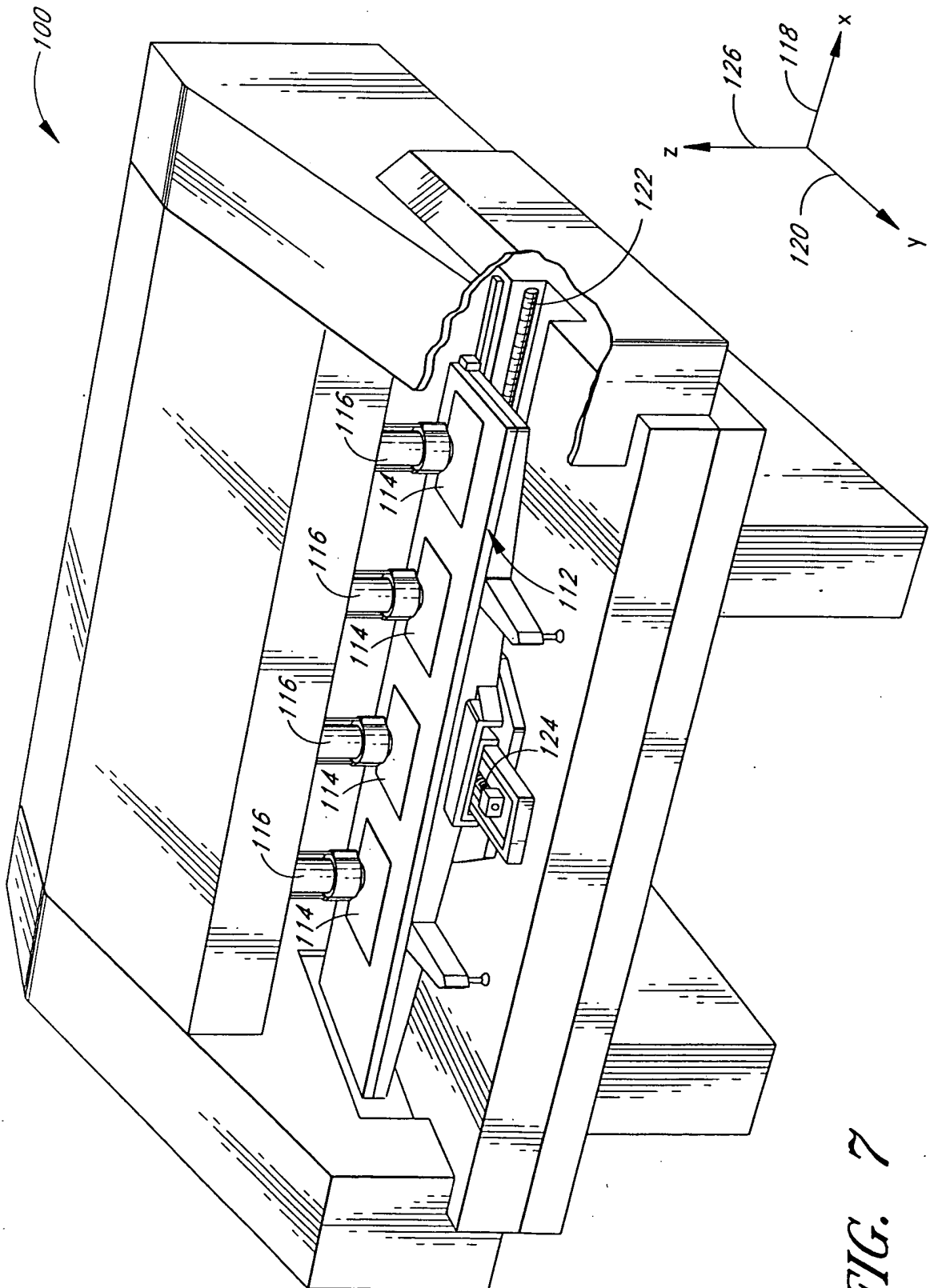


FIG. 7

# INCREMENTAL STEP DRILLING SYSTEM AND METHOD

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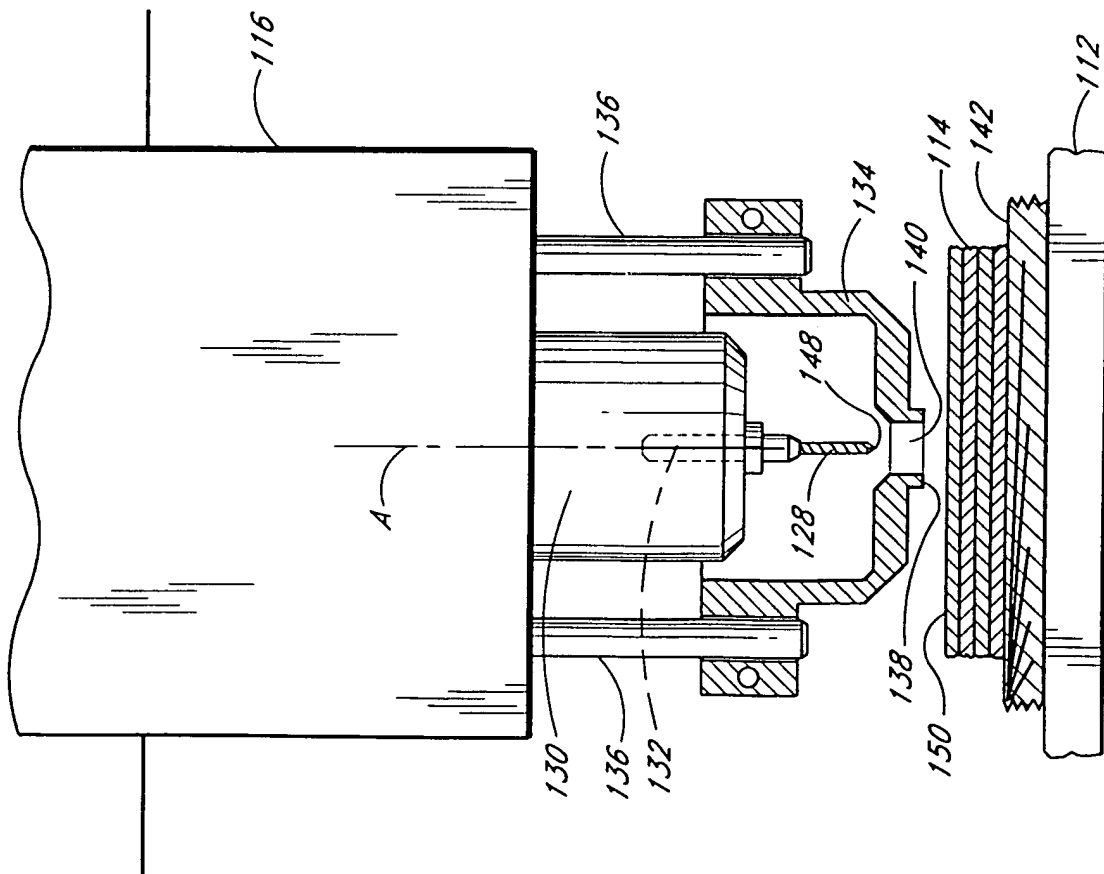


FIG. 8

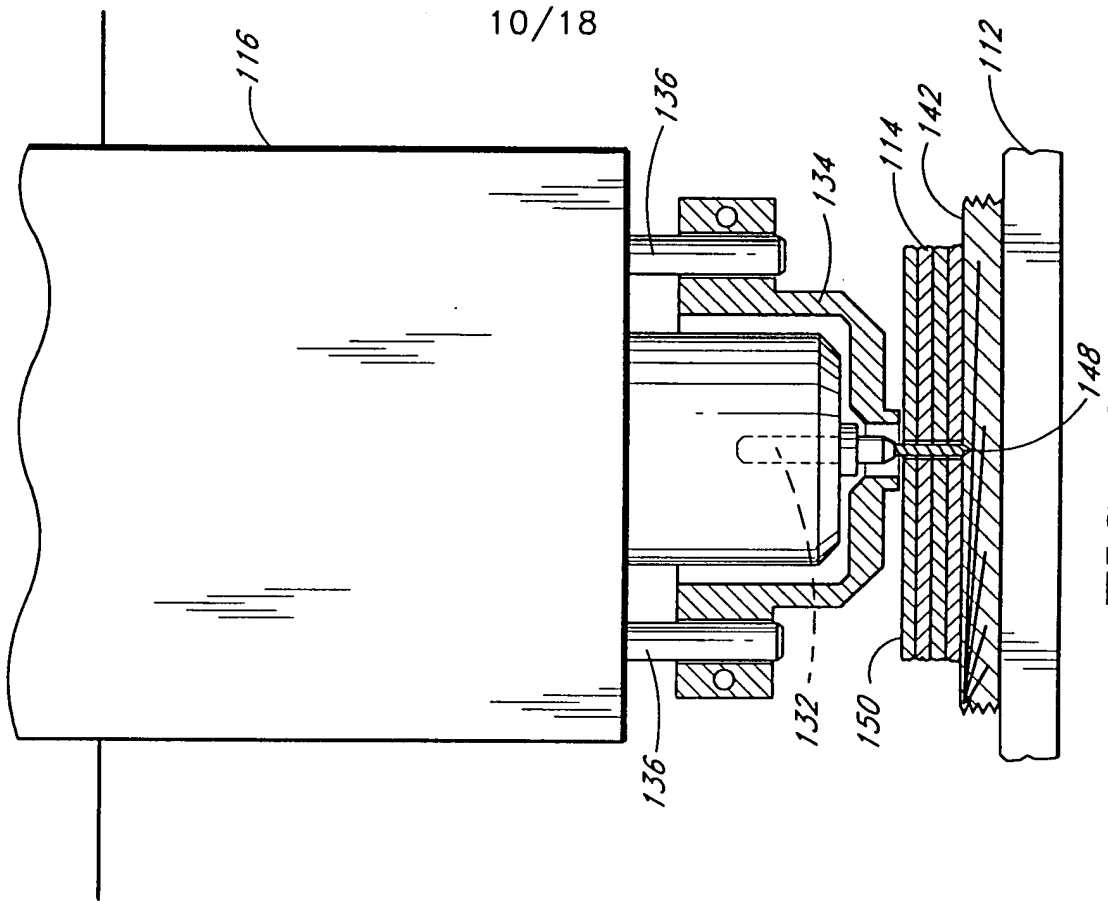


FIG. 9

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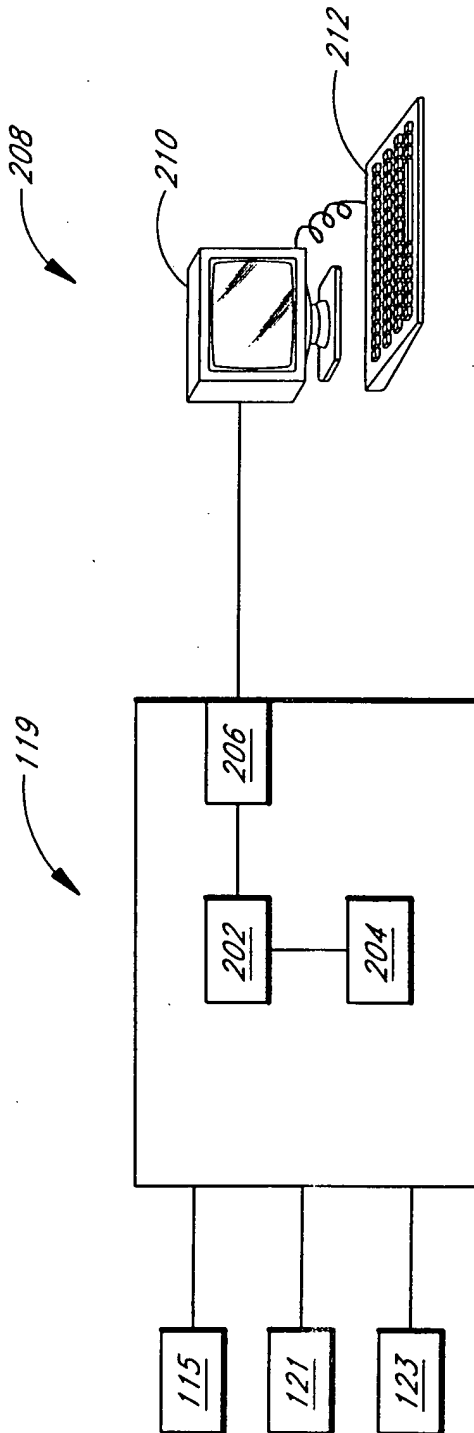


FIG. 10

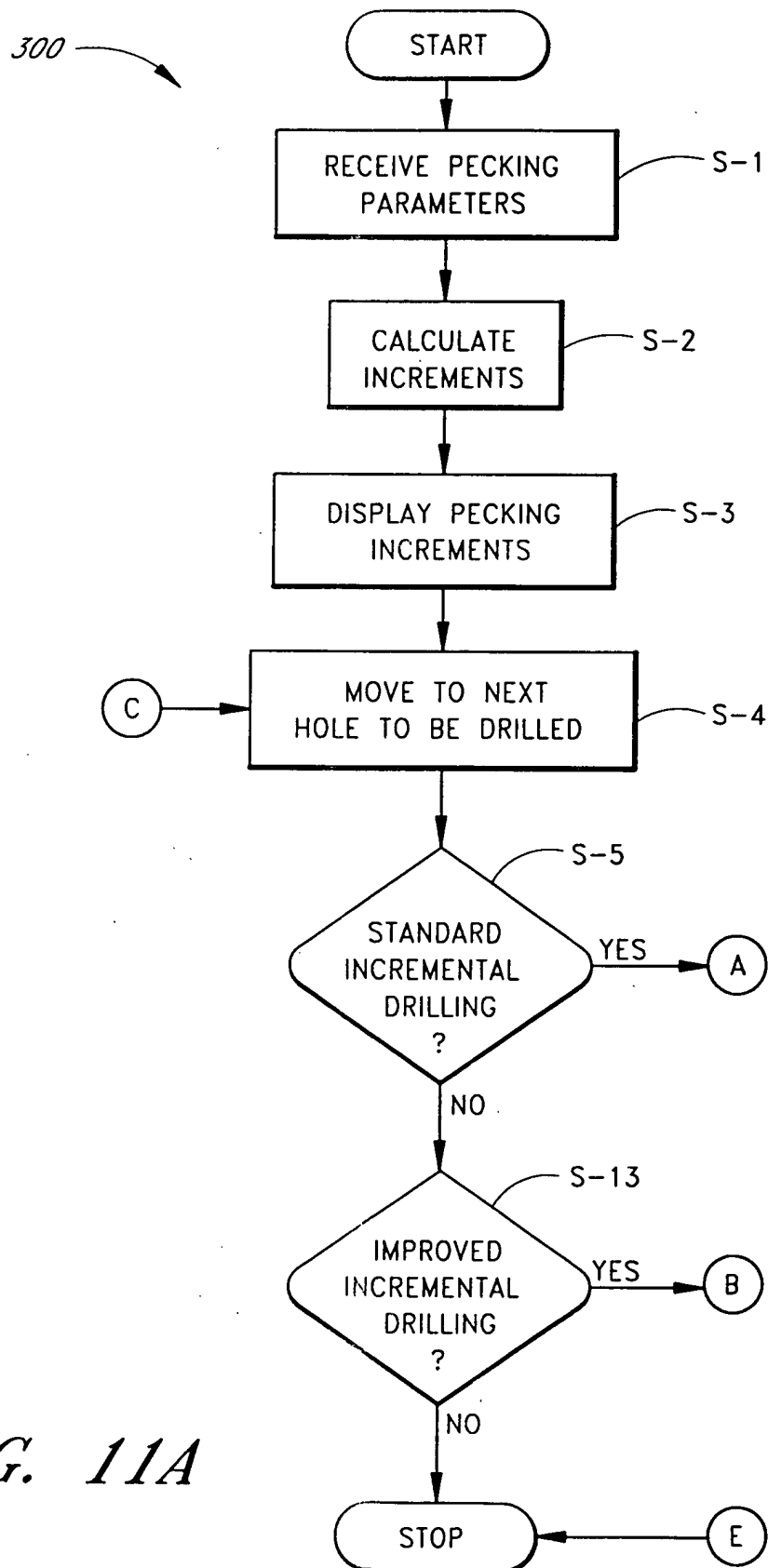


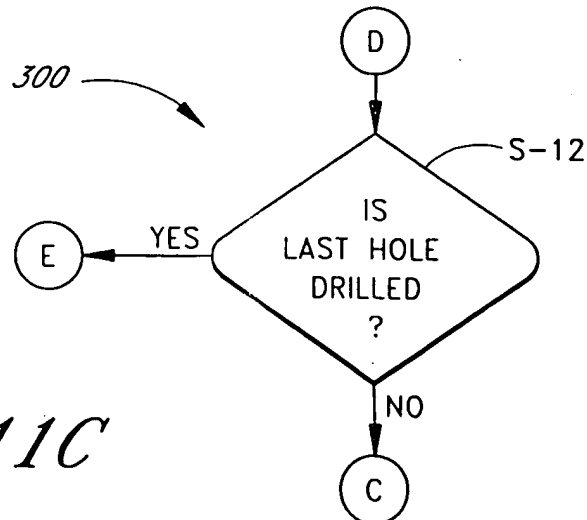
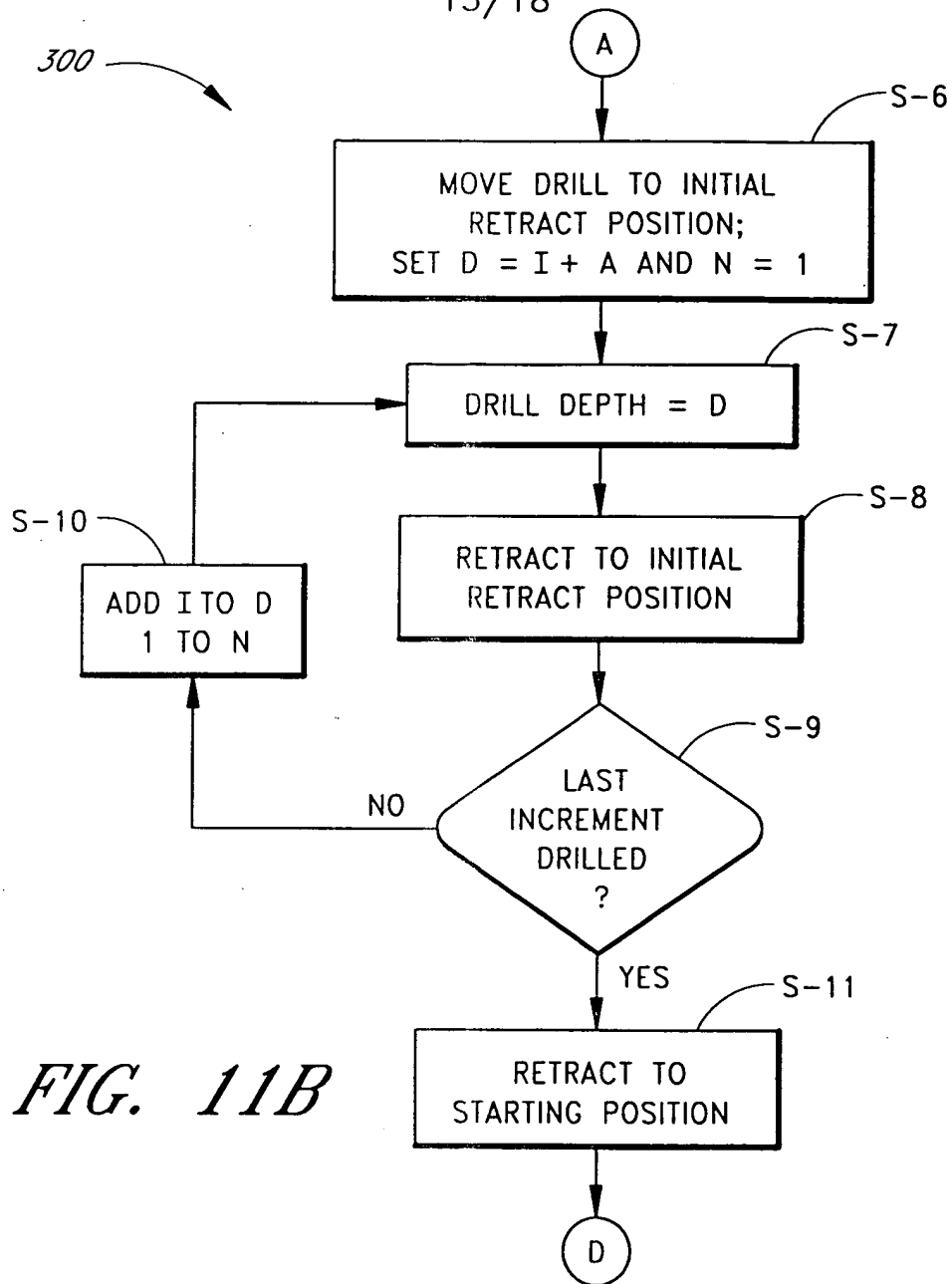
FIG. 11A

# INCREMENTAL STEP DRILLING SYSTEM AND METHOD

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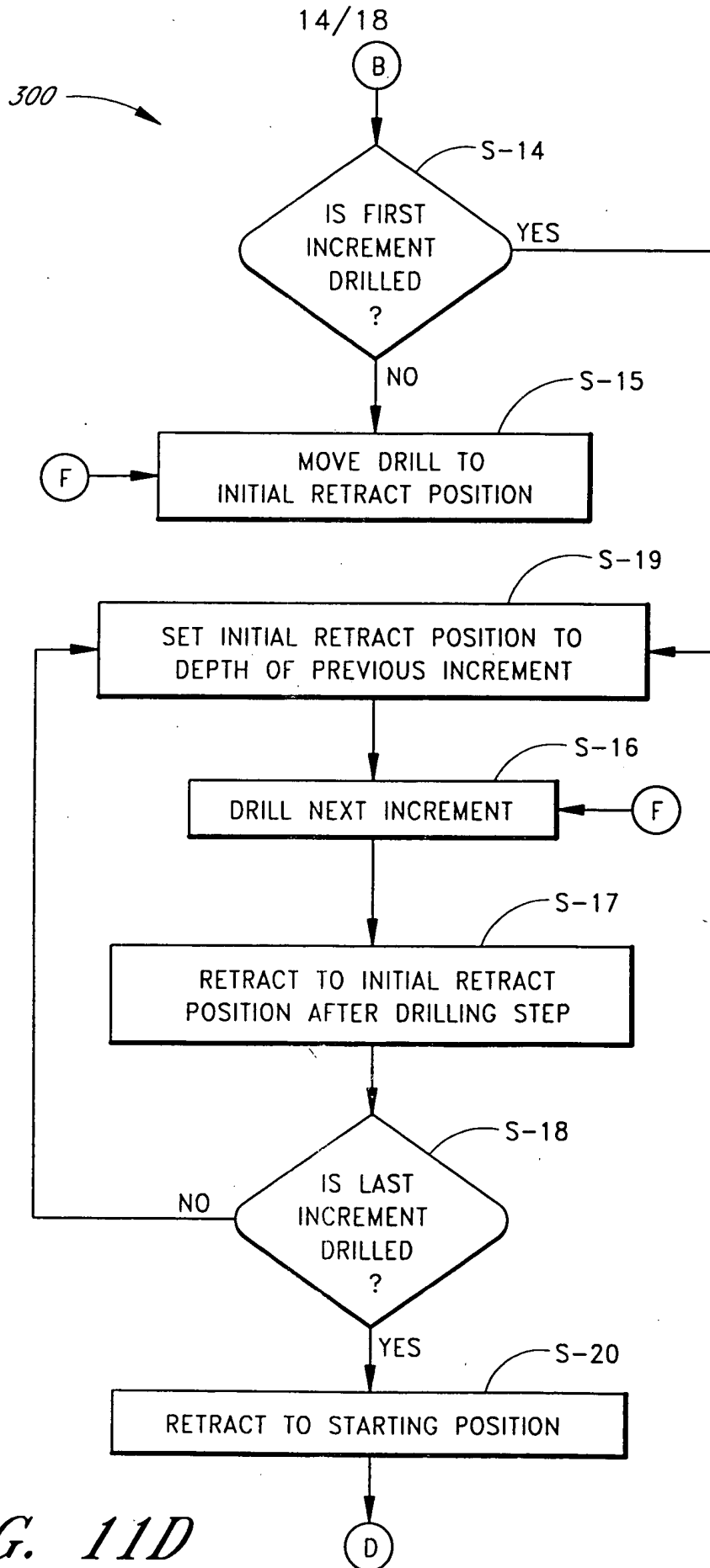


FIG. 11D

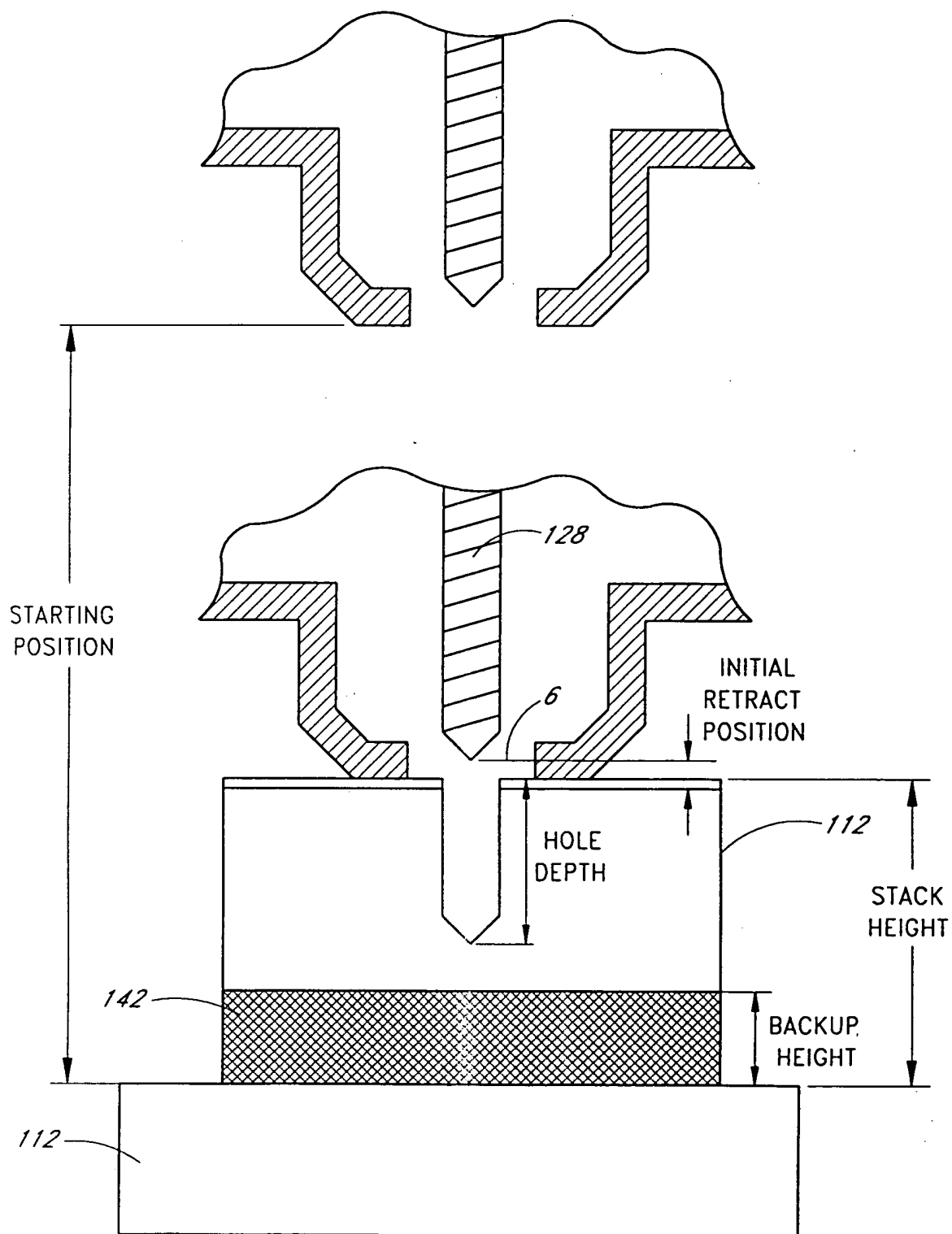


FIG. 12

302a

PECK DRILLING SETUP PAGE							
—	PECKING STATUS	PECK TOOLS	STACK HEIGHT	NO. OF PECKS	UPPER LIMIT	2nd UP LIMIT	LOWER LIMIT
ON	01	.2640	3	.300	.015	BOFS	.063
						FINAL DEPTH	.0000
							.063
							MINIMUM STROKE
							.005

304a

306a

310a

312a

314a

316a

318a

320a

322a

324a

FIG. 13A

PECK DEPTH	SHOWS THE INCREMENTAL HOLE DEPTH PER PECK FROM THE TOP OF THE STACK							
	1	2	3	4	5	6	7	8
1	-.089							
2	-.045	-.089						
3	-.030	-.059	-.089					
4	-.022	-.045	-.067	-.089				
5	-.018	-.036	-.053	-.071	-.089			
6	-.015	-.030	-.045	-.059	-.074	-.089		
7	-.013	-.025	-.038	-.051	-.064	-.076	-.089	
8	-.011	-.022	-.033	-.045	-.056	-.067	-.078	-.089

FIG. 14A



302b

318a

320a

304a

306a

310a

312a

314a

316a

322a

324a

PECK DRILLING SETUP PAGE									
—	PECKING STATUS	PECK TOOLS	STACK HEIGHT	NO. OF PECKS	UPPER LIMIT	2nd UP LIMIT	LOWER LIMIT	BOFS	MINIMUM STROKE
ON	01	.7140	8	.800	-.025	FINAL DEPTH	.478	.010	—

FIG. 13B

SHOWS THE INCREMENTAL HOLE DEPTH PER PECK FROM THE TOP OF THE STACK

PECK DEPTH	1	2	3	4	5	6	7	8
1	-.257							
2	-.129	-.257						
3	-.086	-.171	-.257					
4	-.064	-.129	-.193	-.257				
5	-.051	-.103	-.154	-.206	-.257			
6	-.043	-.086	-.129	-.171	-.214	-.257		
7	-.037	-.073	-.110	-.147	-.184	-.220	-.257	
8	-.032	-.064	-.096	-.129	-.161	-.193	-.225	-.257

FIG. 14B

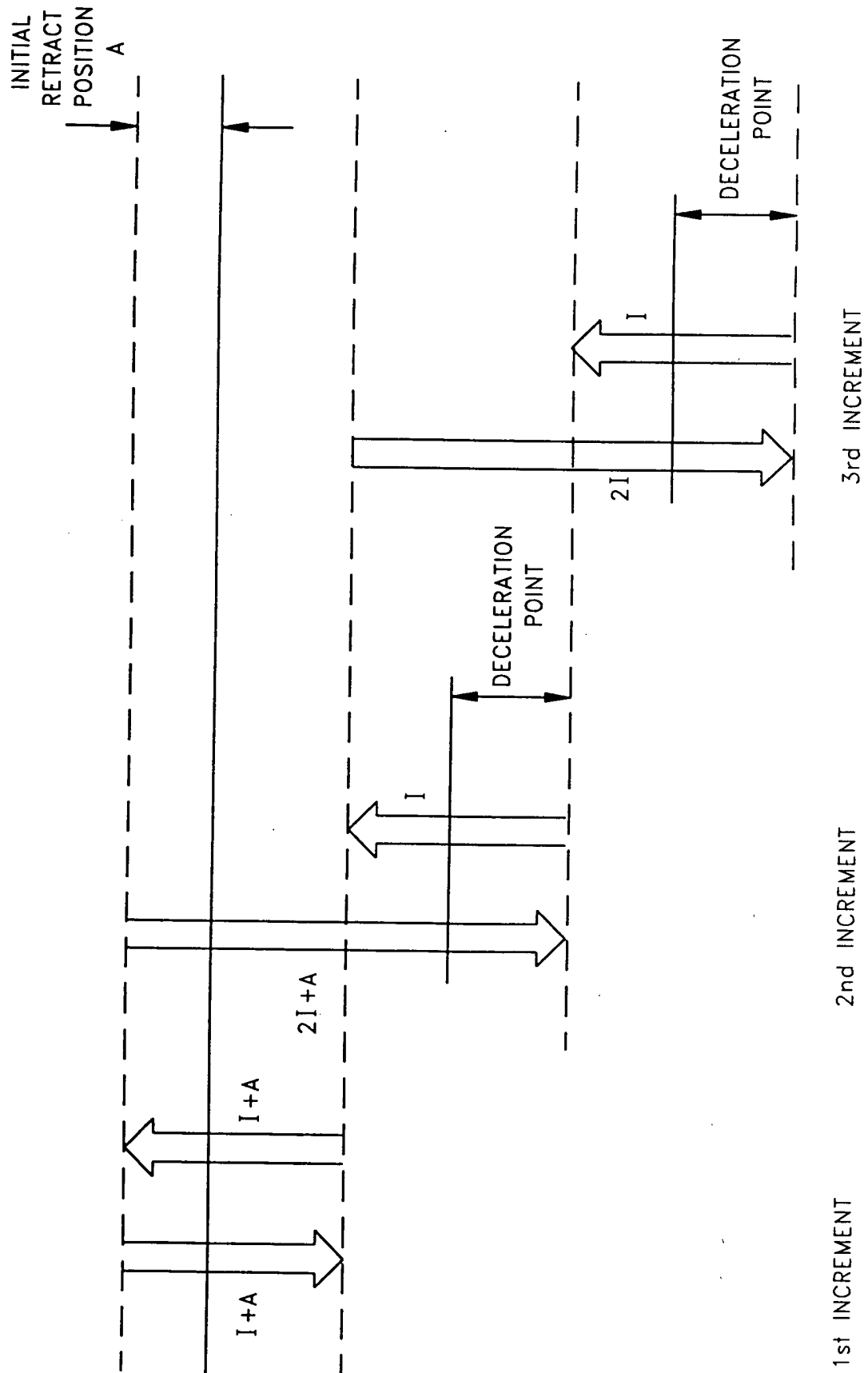


FIG. 15